

REMARKS

The Examiner's communication of September 25, 2007, together with the references cited therein, have been given careful consideration. After such consideration, and in an earnest effort to complete the prosecution of this application, various of the claims have been amended herein accordance with the Examiner's suggestions. Thus, allowable claims 2-7 and 9-14 have been amended with claim 2 being rewritten as an independent and claim 9 has been rewritten as an independent claim to include the limitations of claims 1 and 8. Consequently, in light of the Examiner's comments, the dependent claims 3-7 and 10-14 are also in condition for allowance.

This leaves for consideration Applicant's claim 1 which has been amended and Applicant's independent claims 15 and 16 which have also been amended. It is submitted that these claims, together with their dependent claims, are in condition for allowance in light of the remarks that follow.

The Drawings

The Applicant's have submitted herewith a new sheet of drawings that includes Figs. 1 and 2. Both of these figures have been amended to include arrows, where appropriate, to show the signal flow as requested by the Examiner in his communication of September 25, 2007. Additionally, Fig. 2 has been further revised so that the block 30 now includes the legend splitter as requested by the Examiner. This sheet of drawings has been labeled as "REPLACEMENT SHEET" at the top of the drawing as required by the Examiner. A second identical sheet has been submitted herewith that does not include the term "REPLACEMENT SHEET". If any further changes are requested by the Examiner, it is requested that he contact the undersigned attorney to arrange for such changes.

Acronyms "FM, RF"

The Examiner, on page 2 of the communication of September 25, 2007, objected to the acronyms FM, RF. The Examiner will note that amendments have been made to independent claims 1, 15 and 16, etc. These amendments have included the term "RF (radio frequency)" or "FM (frequency

modulation)". It is believed that this satisfies the Examiner's objection. If the Examiner has further requirements on this point, please contact the undersigned attorney.

Prior Art Rejection

In view of the foregoing, it is apparent that the claims for consideration from a patentability standpoint, include claim 1 as further amended, its dependent claim 8, claims 15 and 16 as further amended, together with dependent claims 17-20. These claims stand rejected in view of Hunsinger 5,757,854.

The Examiner will note that each of the independent claims 1, 15 and 16 has been further amended to point out that the "summer" (see summer 40 in Applicant's Fig. 2), serves for the purpose of summing the fractional portion with a digital signal to provide a first combined signal. In addition, the Examiner is requested to note that each of these claims, as in claim 1, requires the amplification of the first combined signal to provide an amplified combined signal.

Hunsinger's mixer 16 shown in Figs. 1 and 16 serves as a multiplier for multiplying FM waveform 14 with the digital AM message 18 to yield a double side band suppressed carrier signal at 20 which is then summed with the FM signal 14 to provide an upper waveform 24 that is applied to the antenna for transmission purposes.

There is no suggestion in Hunsinger that the FM signal 14 be summed with the AM signal 18 to provide a combined signal which is then and thereafter amplified by a digital amplifier with the output of this amplifier being combined with the output of an FM amplifier as in Applicant's invention. Moreover, the Examiner has made reference to element 124 in patent 6,898,249 for a teaching of another mixer. As brought out in column 6 of that patent, at lines 3 and 4, it combines signals 110 and 122 (to obtain a signal 126). Again, there is no teaching that the "combiner" 124 of this patent serve to sum the two signals, but rather, the "combiner" serves as a mixer that serves the same function as the mixer 16 in the Hunsinger patent.

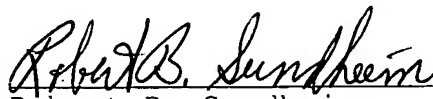
Moreover, there is no suggestion that the combined signal of the mixer 16 can be supplied to a digital transmitter for amplification to provide an amplified combined signal, as is required by all of Applicant's claims herein.

In view of the foregoing, it is submitted that Applicant's claims 1, 15 and 16 and their dependent claims 8 and 17-20 are clearly patentable over the references cited by the Examiner.

In view of the foregoing, it is submitted that this application is now in condition for allowance with claims 1-20.

Please charge any deficiency or credit any overpayment in the fees for this amendment to our Deposit Account No. 20-0090.

Respectfully submitted,


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